Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TP: \_\_\_\_\_\_\_

HW#11: Quadratic Tables

Geometry

Due: September 24th, 2015

|  |
| --- |
| **Expectations**:   * Use complete sentences when explaining your reasoning. * Show all your work. If your work is on a separate sheet of paper, **STAPLE IT**. * Why > How > What |

**Part I: Quadratic Tables**

For each of the tables below:

a) Identify whether each quadratic function will have a highest or lowest point. Justify your answer.

b) Determine the x-intercept(s), y-intercept, axis of symmetry, and vertex from the table below.

|  |  |  |
| --- | --- | --- |
| 1. | 2. | 3. |
| **Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 6.59.17 PM.png** | Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 6.56.44 PM.png | **Macintosh HD:Users:katleiahramos:Desktop:Screen Shot 2015-09-20 at 6.54.09 PM.png** |

**Part II: Quadratic or Not?**

|  |  |  |
| --- | --- | --- |
|  | Quadratic or Not Quadratic? If yes, label the important points or features. | Justify your answer using mathematical evidence *(hint: use what you know of the key features of quadratic functions)* |
| |  |  | | --- | --- | | *x* | *f(x)* | | 1 | 2 | | 2 | -1 | | 3 | -2 | | 4 | -1 | | 5 | 2 | | 6 | 7 | |  |  |
| y = - x2 + 4 |  |  |
| http://resources2.news.com.au/images/2014/12/26/1227167/392674-2eb40212-8cc3-11e4-a5fe-753c416d0f8b.jpg |  |  |
| y = x + 2 |  |  |
| https://upload.wikimedia.org/wikipedia/commons/e/e3/Kheops-Pyramid.jpg |  |  |
|  |  |  |